

549502

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/083243 A1

- (51) International Patent Classification⁷: **C07K 14/575**, 7/06, A61K 38/22, A61P 5/48
- (21) International Application Number: PCT/EP2004/050320
- (22) International Filing Date: 17 March 2004 (17.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 03100683.6 18 March 2003 (18.03.2003) EP
- (71) Applicant (for all designated States except US): **APPLIED RESEARCH SYSTEMS ARS HOLDING N.V.** [NL/NL]; Pietermaai 15, Curacao (AN).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **FEZOU, Youcef** [US/CH]; 7 Rue Jean Pelletier, CH-1225 Chêne-Bourg (CH). **SOTO-JARA, Claudio** [CL/US]; 2403 Pine Drive, Friendswood, TX 77546 (US).
- (74) Agent: **SERONO INTERNATIONAL SA** Giulia Tagliafico; Intellectual Property SA, 12, Chemin des Aulx, CH-1228 Plan-les-Ouates (CH).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
- with international search report
 - before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **AMYLIN AGGREGATION INHIBITORS AND USE THEREOF.**

(57) Abstract: Short peptides and derivatives or analogs thereof for the treatment or prevention of IAAAP related disorders, in particular amyloid deposits associated with Type I or Type II diabetes are herein described. These peptides and/or their derivatives have been designed to inhibit the formation of amylin fibrils which are implicated in the pathogenesis of diabetes Type II as well as to dissolve the fibrillar deposits already formed



WO 2004/083243 A1